

Clinical Policy: Alprostadil (Caverject, Edex, Muse)

Reference Number: CP.CPA.02

Effective Date: 11.16.16 Last Review Date: 08.25 Line of Business: Commercial

Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

Alprostadil (Caverject[®], Edex[®], Muse[®]) is a prostaglandin E1 (PGE1) agonist.

FDA Approved Indication(s)

Caverject is indicated:

- For the treatment of erectile dysfunction (ED);
- As an adjunct to other diagnostic tests in the diagnosis of ED.

Edex is indicated for the treatment of ED due to neurogenic, vasculogenic, psychogenic, or mixed etiology.

Muse is indicated for the treatment of ED. Studies that established benefit demonstrated improvements in success rates for sexual intercourse compared with similarly administered placebo.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that Caverject, Edex, and Muse are **medically necessary** when the following criteria are met.

I. Initial Approval Criteria

- A. Erectile Dysfunction (must meet all):
 - 1. Diagnosis of ED;
 - 2. Age \geq 18 years;
 - 3. Failure of ONE oral phosphodiesterase type 5 (PDE5) inhibitor* (e.g., sildenafil), unless clinically significant adverse effects are experienced or all are contraindicated; *Prior authorization may be required.
 - 4. Dose does not exceed any of the following (a, b, or c):
 - a. Caverject: 60 mcg per dose with no more than 3 doses weekly;
 - b. Edex: 40 mcg per dose with no more than 3 doses weekly;
 - c. Muse: two systems per 24-hour period.

Approval duration: 6 months or to member's renewal period, whichever is longer

B. Other diagnoses/indications (must meet 1 or 2):

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):



- a. For drugs on the formulary (commercial), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial; or
- b. For drugs NOT on the formulary (commercial), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial; or
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial.

II. Continued Therapy

A. Erectile Dysfunction (must meet all):

- 1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B);
- 2. Member is responding positively to therapy;
- 3. If request is for a dose increase, new dose does not exceed any of the following (a, b, or c):
 - a. Caverject: 60 mcg per dose with no more than 3 doses weekly;
 - b. Edex: 40 mcg per dose with no more than 3 doses weekly;
 - c. Muse: two systems per 24-hour period.

Approval duration: 6 months or to member's renewal period, whichever is longer

B. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial; or
 - b. For drugs NOT on the formulary (commercial), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial; or
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial.

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CP.CPA.09 for commercial or evidence of coverage documents.

FDA: Food and Drug Administration

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key ED: erectile dysfunction



PDE5: phosphodiesterase type 5 PGE1: prostaglandin E1

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business

and may require prior authorization.

Drug	Dosing Regimen	Dose Limit/
Drug		Maximum Dose
tadalafil	Daily: 2.5-5 mg PO QD	QD dosing (5 mg/day)
(Cialis®)	PRN: 10 mg PO before sexual activity.	
	Dosing range: 5 - 20 mg. The maximum	PRN dosing (20
	recommended dosing frequency is ONCE per	mg/day)
	day.	
sildenafil	50 mg PO 1 hour (0.5-4 hours) before sexual	100 mg/day
(Viagra®)	activity.	
	Dosing range: 25-100 mg.	
	The maximum recommended dosing frequency	
	is ONCE per day.	
vardenafil	10 mg PO 60 minutes before sexual activity.	20 mg/day
	Dosing range: 5-20 mg.	
	The maximum recommended dosing frequency	
4 04	is ONCE per day.	
vardenafil	Place 1 tablet (10 mg) on the tongue 60	10 mg/day
orally	minutes before sexual activity. The maximum	
disintegrating	recommended dosing frequency is ONCE per	
tablet	day.	200 /1
avanafil	100 mg PO 30 minutes before sexual activity.	200 mg/day
(Stendra [™])	Dosing range: 50-200 mg.	
	The maximum recommended dosing frequency	
	is ONCE per day.	

Therapeutic alternatives are listed as Brand name[®] (generic) when the drug is available by brand name only and generic (Brand name[®]) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
 - Muse: hypersensitivity, abnormal penile anatomy (urethral stricture, balanitis [inflammation/infection of the glans of the penis], severe hypospadias and curvature, and in patients with acute or chronic urethritis), sickle cell anemia or trait, thrombocythemia, polycythemia, multiple myeloma: patients who are prone to venous thrombosis or who have a hyperviscosity syndrome and are therefore at increased risk of priapism (rigid erection lasting 4 or more hours), use in men for whom sexual activity is inadvisable, use for sexual intercourse with a pregnant woman unless a condom barrier is used.
 - Caverject, Edex: Men who have conditions that predispose them to priapism, such as sickle cell anemia or sickle cell trait, multiple myeloma, or leukemia; treatment of erectile dysfunction in men with fibrotic conditions of the penis, such as anatomical



deformation, angulation, cavernosal fibrosis, or Peyronie's disease; men with penile implants, hypersensitivity.

• Boxed warning(s): none reported

V. Dosage and Administration

Drug Name	Dosing Regimen	Maximum Dose
Alprostadil	Initial dosage titration should be done in	60 mcg/dose, with at least
(Caverject)	the physician's office. Dosage range: 1.25	24 hours between doses, and
	- 60 mcg intracavernosally prior to sexual	no more than 3 doses
	activity. The recommended frequency of	weekly
	injection is no more than 3 times weekly,	
	with at least 24 hours between each dose.	
Alprostadil	Initial dosage titration should be done in	40 mcg/dose, with at least
(Edex)	the physician's office. Dosage range:	24 hours between doses, and
	1.25 - 40 mcg intracavernosally prior to	no more than 3 doses
	sexual activity. The recommended	weekly
	frequency of injection is no more than 3	
	times weekly, with at least 24 hours	
	between each dose.	
Alprostadil	Initial: 250 mcg. Titrate on separate	2 systems per 24 hour period
(Muse)	occasions to lowest dose required to	
	achieve an erection sufficient for sexual	
	intercourse.	

VI. Product Availability

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Drug	Availability		
Alprostadil	Dry lyophilized powder vials: 20 mcg, 40 mcg		
(Caverject)	Impulse syringe kits, freeze-dried powder in a dual-chamber syringe:		
	10 mcg, 20 mcg		
Alprostadil	Kits (with diluent): 10 mcg, 20 mcg, 40 mcg		
(Edex)			
Alprostadil	Urethral pellet system: 250 mcg, 500 mcg, 1,000 mcg		
(Muse)			

VII. References

- 1. Caverject Prescribing Information. New York, NY: Pharmacia and Upjohn; December 2022. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/020379s038lbl.pdf. Accessed May 5, 2025.
- 2. Caverject Impulse Prescribing Information. New York, NY: Pharmacia and Upjohn; December 2022. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/021212s018lbl.pdf. Accessed May 5, 2025.
- 3. Edex Prescribing Information. Malvern, PA: Endo Pharmaceuticals; March 2024. Available at: https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=e8b8ec8d-1318-43e4-a182-446e9f9579de. Accessed May 5, 2025.



- 4. Muse Prescribing Information. Somerset, NJ: Meda Pharmaceuticals; May 2024. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2024/020700s032lbl.pdf. Accessed May 5, 2025.
- 5. Burnett AL, Nehra A, Breau RH, et al. Erectile Dysfunction: American Urological Association Guideline 2018. Available at: https://www.auanet.org/guidelines-and-quality/guidelines/erectile-dysfunction-(ed)-guideline. Accessed May 5, 2025.
- 6. Micromedex® Healthcare Series [Internet database]. Greenwood Village, Colo: Thomson Healthcare. Updated periodically. Accessed May 5, 2025.
- 7. Clinical Pharmacology [database online]. Tampa, FL: Gold Standard, Inc.; 2018. Available at: https://www.clinicalkey.com/pharmacology/. Accessed May 5, 2025.
- 8. Kloner RA, Burnett AL, Miner M, et al. Princeton IV consensus guidelines: PDE5 inhibitors and cardiac health. The Journal of Sexual Medicine. February 2024; 21(2): 90–116.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS	Description
Codes	
J0270	Injection, alprostadil, 1.25 mcg (Caverject, Edex)
J0275	Alprostadil urethral suppository (Muse)
J3490	Unclassified drugs (Caverject Impulse)

Reviews, Revisions, and Approvals		P&T
		Approval
		Date
3Q 2021 annual review: no significant changes; references reviewed and updated.	04.06.21	08.21
1		00.22
3Q 2022 annual review: no significant changes; references reviewed	04.19.22	08.22
and updated.		
Template changes applied to other diagnoses/indications and		
continued therapy section.		
3Q 2023 annual review: replaced requirement that member is male to	04.14.23	08.23
require diagnosis of ED; references reviewed and updated.		
3Q 2024 annual review: no significant changes; added Coding	05.02.24	08.24
Implications with HCPCS codes; references reviewed and updated.		
3Q 2025 annual review: no significant changes; removed Muse 125	05.05.25	08.25
mcg per updated prescribing information; references reviewed and		
updated.		

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional



organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions, and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment, or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

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